Determination of Public Land (Rangeland) Health for 65040 MALCOLM C HARRAL

The Record of Decision (ROD) for the New Mexico Standards for Public Land Health and Guidelines for Livestock Grazing Management (dated January 2001) adopted three Standards for Public Land Health. These are (1) Upland Sites Standard, (2) Biotic Communities, Including Native, Threatened, Endangered, and Special Status Species Standard and (3) Riparian Sites Standard.

The ROD also established a process for the BLM Field Offices for the implementation. Through a public participation process, the Roswell Field Office developed and adopted indicators to use in conjunction with existing monitoring data to assess these standards.

Field assessment worksheets and other available data that evaluate the local indicators were completed for this allotment. Based on the assessments, it is my determination that the public land within the Malcolm C. Harral allotment #65040 meets the Upland Sites standard and (2) Biotic Communities, including Native, Threatened, Endangered and Special Status Species standard. There are no public land riparian areas on this allotment, therefore this standard was not addressed.

/s/ T. R. KREAGER
Assistant Field Manager

09/09/2004

Date

Standards of Public Land Health Evaluation of 65040 MALCOLM C HARRAL Allotment [03/13/2004]

The Roswell Field Office conducted rangeland health assessments at one study site within the Malcolm C Harral Allotment #65040. The assessments looked at the Soil/Site Stability, Hydrologic Function and Biotic Integrity indicators within the vicinity of each study site. Existing monitoring data was incorporated into and in support of the field assessment. The summary of each assessment is attached and shown in the following table

Study Area	UPLAND			BIOTIC			RIPARIAN		
or Assessment Area	Meets	Monitor an Indicator	Not	Meets			Meets	an	Does Not Meet
65040-NM24- C036	X			X			N/A		

Twenty-two (22) indicators for Rangeland Health were evaluated for the Malcolm C Harral allotment; 10 of these assessed soil/site stability, 11 hydrologic function and 13 biotic integrity. These qualitative assessments along with quantitative information from two areas on the allotment were utilized to assess the rangeland health of the public land within the allotment. This allotment is a "C" category (custodial) because of the small amount of public land within the allotment.

The indicators rated in the majority of None to Slight to Moderate category, with the exception of bareground, annual production and invasive plants rating in the Moderate category. But none of these exhibit any real concern at the moment. Favorable precipitation events would further augment this site's potential. The low presence of grama grasses is evident however on this soil type tobosa and burrogras may dominate. However the reproductive capability of the perennial plants to reproduce was not limited. There was a generous amount of physical crusting which may be holding the soils in place until favorable climatic conditions return. This site is a Loamy SD-3 and exhibits some prickly pear (Opuntia spp.) encroachment but not to the level of limiting this site's potential.

Hydrology - Pasture NM24 - The rills, water flow patterns, pedestals and/or terracettes, bareground, gullies, wind scoured, blowouts, and or deposition areas, litter movement, soil surface resistance to erosion, soil surface loss or degradation, plant community composition and distribution relative to infiltration and runoff, compaction layer, litter amount, and physical/chemical/biological crusts indicators have rated as none to slight or

slight to moderate. Gypsum, dolomite, and silstone deposits of the Yates Formation outcrop in the area.

Wildlife - There is one large tract of public land within this very small grazing allotment. The highways and rights-of-way fencing to the north and west effectively limit pronghorn antelope movement off of the allotment. Herds are still able to move between allotments south and east of the highways. The only biotic factor of concern is annual production which is closely tied to the droughty conditions over the past several years.

It is the professional opinion of the Assessment Team. that the public land within the Malcolm C Harral allotment meets the Upland and Biotic standards. There are no Riparian issues present, therefore this standard was not addressed. See site notes and recommendations regarding this assessment.

Recommendations: Wildlife - If and/or when the opportunity arises, consider combining this allotment with 65057.

RFOs	Upland	l and Biotic Standa	rd .	Asses	ssment S	umma	ary	Worksho	eet
		SITE 6504	0-N	M2 ²	1-C036				
Legal La	Legal Land Desc SWSW 31 0100S 0260E Meridian 23		0E	Acreage		287			
Ecosite		042CY007NM LOAMY SD-3		Photo Taken		Y			
Watershed		13060007010 GOPHER							
Ol	oservers	SPAIN/NAVARRO		Observation Date		03/	03/17/2004		
Cou		NM644 CHAVES NORTH		Soil Var/Taxad					
Soil M	Iap Unit	HMA		S	oil Taxon	Name	НО	LLOMEX	-
Textu	re Class	NM644 L			Soil	Phase	HOLLOMEX- REEVES-MILNER		
Texture N	Modifier	NM644 LOAM,DRY							
	Annual Precipitation			Observed Avg Growing Season Precipitation					
	Annual pitation	\mathbf{q}		NOAA Growing Season Precipitation					
	AA Avg Annual pitation	12.83		NOAA Avg Growing Season Precipitation				10.65	
Disturbar Anin	nces and nal Use:			,					
Part 2. Att	ributes a	and Indicators							
					e from Eco ion/Ecolog				
Attribute	Indicato	Drs		trem e	Moderat e to Extreme	Mode e	erat	Slight to Moderat e	None to Slight
SH	Rills								X
Comments :									
SH	Water F	Flow Patterns						X	
Comments :									
SH	Pedesta	ls and/or Terracettes						X	

Comments :	in flow patterns				
SH	Bare Ground			X	
Comments :					
SH	Gullies				X
Comments :					
S	Wind-scoured, Blowouts, and/or Deposition Areas				X
Comments :					
Н	Litter Movement			X	
Comments :					
SHB	Soil Surface Resistance to Erosion			X	
Comments :					
SHB	Soil Surface Loss or Degradation			X	
Comments :					
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff			X	
Comments :	minor and due to drought cond	litions			
SHB	Compaction Layer				X
Comments :					
В	Functional/Structural Groups			X	
Comments :	Tobossa, ring muhly, burro-gr	ass and gramm	a grass		
В	Plant Mortality/Decadence				X
Comments :					
НВ	Litter Amount			X	

Comments :								
В	Annual Production			X				
Comments:								
В	Invasive Plants				X			
Comments :	Opuntia and some mesquite							
В	Reproductive Capability of Perennial Plants				X			
Comments :								
S	Physical/Chemical/Biologica l Crusts				X			
Comments :	Both physical and biological cand is influenced by the gypsu		oresent. Bio	ological cru	ist are scat	tered		
В	Wildlife Habitat				X			
Comments :	A relatively flat, grassland habitat within a very small grazing allotment bounded on the north by Highway 370 and State Highway 409 to the west.							
В	Wildlife Populations				X			
Comments:	Primary species of concern is pronghorn antelope and a variety of non-game terrestrial species. Herds are able move between allotments in this area. The highway is an effective barrier to movement. Local herd movement somewhat limited to habitat south and east of the highways.							
В	Special Status Species Habitat					X		
Comments :	None known to occur.							
В	Special Status Species Populations					X		
Comments :	None known to occur.							
Part 3. Sun	nmary							
attributes be	r Summary - Each of the indica elow. An indicator is placed in Standard Attributes.							
Standard		Extrem	Moderat	Moderat	Slight to	None		

Attribute		e	e to	e	Moderat	to
			Extreme		e	Slight
S	Soil	0	0	0	6	4
Н	Hydrologic	0	0	0	8	3
В	Biotic	0	0	1	8	4

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meet
Soil		0	0	10
Hydrologic		0	0	11
Biotic		0	1	12

Site Notes: he gypsic soils of the HOLLOMEX-REEVES-MILNER association greatly influence the vegetative community found on this site. Tobossa, burrograss and gyp gramas are dominant. Gyp Upland ecological site inclusions are scattered inclusions within this area. These inclusions are on the more shallow to very shallow soils.

65040 – Site NM24

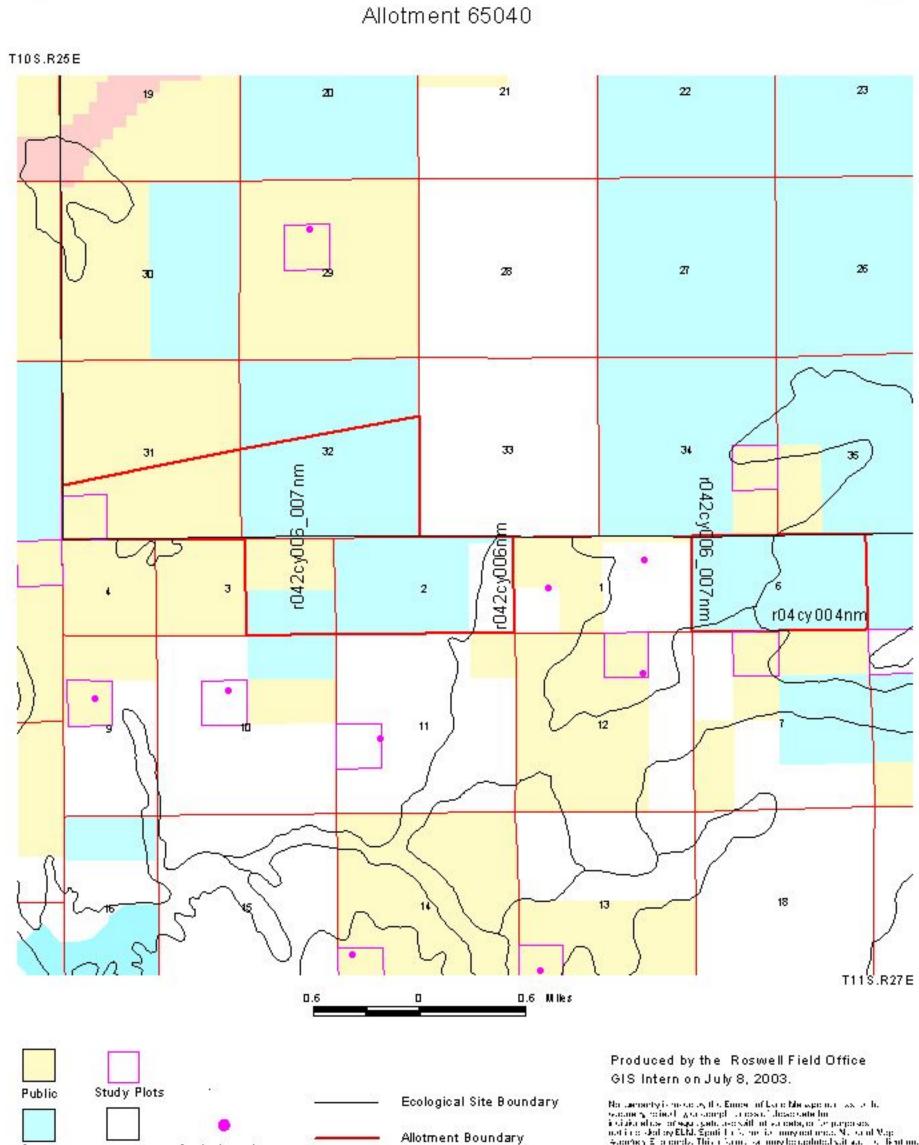






Rangeland Health Assessment **Ecological Sites**





Study Locations

Private

No constraint on the state of Land Mercapolita (as the second of the se



Rangeland Health Assessment **Soil Mapping Units**



